DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

TYPE CERTIFICATION DATA SHEET NO. A00002NY

This data sheet which is a part of Type Certificate No. A00002NY prescribes conditions and limitations under which the product for which the type certification was issued meets the airworthiness of the Federal Aviation Regulations.

Type Certificate Holder: Appalachian Aircraft Corporation
30 Old Rudnick Lane
Dover, DE 19901

Type Certificate Holder Record: EL Gavilan S.A. transferred ownership to Appalachian Aircraft Corporation on December 31, 2000.

Model EL-1 (Gavilan) 2PCLM (Normal Category) Approved May 26, 1998

Engine:	Lycoming TIO-540-W2A

Fuel: 100/130 minimum grade aviation gasoline

Engine Limits: For all operations:
2600 r.p.m. (350 hp) sea level to 15,000 ft.
Max. MAP is 50.6" Hg.

Propeller and Propeller Limits:
Hartzell,	Hub HC-C3YR-1RF, Blade F8468A-6R
Pitch:	High 34.0° ± 1.0°, Low 12.4° ± 0.1 at 30" station
Diameter:	Not over 80", no cut off allowed
Governor:	Hartzell V-3-9
Spinner & Mtg. Kit:	Hartzell C3570 & A-2476-6

Airspeed Limits (KIAS):
Never exceed:		155 knots
Maximum structural cruising:		123 knots
Maneuvering:		123 knots
Flaps extended:	36°	85 knots

Maximum Operating Altitude: 12,500 feet

C. G. Range - Normal Category
Forward (at 4200 lb.)	117.9 in. aft of Datum
(at 3350 lb. or less)	112.0 in. aft of Datum
Rearward (at all weights)	126.0 in. aft of Datum

Straight line variation between points given.
The datum is 105.80 in. forward of wing leading edge.

Empty Weight C.G. Range: None

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Model EL-1 (Gavilan) (cont.)

Leveling Means:	Seat tracks in cabin section
Maximum Weight:	4200 lb. (Normal Category)
Number of Seats:	2 (2 at 105.0)
Fuel Capacity:	105 gallons at (135.0) (2 wing tanks)

Control Surface Movements:

Wing Flaps	± 2°	Up 0°	Down 15°, 30°, 36°
Ailerons	(±2°)	Up 25°	Down 20°
Rudder	(±1°)	Left 26°	Right 26°
Elevator	(±2°)	Up 26°	Down 19°
Elevator Trim	(±2°)	Up 14°	Down 29°

Nose Wheel Travel: Full Swivel

Serial Numbers Eligible: E1 and subsequent. Aircraft manufactured in Columbia, indicated by the letter "C" in the serial number sequence, are not eligible for importation to the United States.

Certification Basis: FAR Part 23, as amended by Amendments 23-1 through 23-46, and FAR 36 Append G, including Amendments 36-1 through 36-20; and Equivalent Level of Safety for EL Gavilan EL-1, compliance to FAR 23.1143 (g) and 23.1147 (b), Ref. Throttle and Mixture Control Cables.

Production Basis: None

Equipment: The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for operation in DAY/VFR ONLY.In addition, the following document is required: (1) Pilots Operating Manual, EL Gavilan Report Number 1208, dated May 26, 1998.

NOTE 1: Current weight and balance report, including list of equipment included in certificated empty weight, and loading instructions when necessary, must be provided.

The certificated empty weight and corresponding center-of-gravity locations must include undrainable system oil (not included in oil capacity) and unusable fuel as noted below:

Unusable Fuel & Undrainable Oil Quantity	Fuel	3.0 gal.
	Oil	3.80 lb. at (+29.0)

NOTE 2: The following placards must be displayed in clear view of the pilot:

 "OPERATING LIMITATIONS WHICH MUST BE COMPLIED WITH WHEN OPERATING THIS AIRPLANE IN NORMAL CATEGORY ARE CONTAINED IN THE PILOTS OPERATING MANUAL."

"INTENTIONAL SPINS IN ANY CONFIGURATION ARE NOT APPROVED FOR THIS AIRPLANE."

"THIS AIRPLANE IS APPROVED FOR FLIGHT IN DAY VFR CONDITIONS ONLY WHEN EQUIPPED IN ACCORDANCE WITH FAR 91. FLIGHT INTO KNOWN ICING CONDITIONS IS PROHIBITED."

NOTE 3:   The following GATS, Inc. reports are considered to be part of the type design;
                Report 1208, No Revision, dated May 26, 1998, "Pilot's Operating Manual"
                Maintenance Manual for El Gavilan 358, "Instructions for Continued Airworthiness"

NOTE 4:   All interior configurations for passenger seating or cargo must be separately FAA approved.

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